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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/767,346	01/30/2004	Paula Calabrese	245046US6 YA	5236
22850	7590 06/17/2005		EXAMINER	
OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C.			KIM, PAUL L	
1940 DUKE ALEXANDI	STREET RIA, VA 22314		ART UNIT	PAPER NUMBER
	,		2857	

DATE MAILED: 06/17/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	()			
	10/767,346	CALABRESE ET AL.				
Office Action Summary	Examiner	Art Unit				
	Paul Kim	2857				
The MAILING DATE of this communication ap	opears on the cover sheet v	vith the correspondence addres	ss			
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPITHE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statu - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).		a reply be timely filed irty (30) days will be considered timely. DNTHS from the mailing date of this commu ABANDONED (35 U.S.C. § 133).	unication.			
Status						
1) Responsive to communication(s) filed on 30.	January 2004.					
2a) ☐ This action is FINAL . 2b) ☑ Th	is action is non-final.					
3) Since this application is in condition for allow	ance except for formal ma	tters, prosecution as to the me	erits is			
closed in accordance with the practice under	Ex parte Quayle, 1935 C.	D. 11, 453 O.G. 213.				
Disposition of Claims						
4) Claim(s) 1-34 is/are pending in the applicatio	n.					
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-27 and 29-34</u> is/are rejected.						
7)⊠ Claim(s) <u>21,28 and 33</u> is/are objected to.						
8) Claim(s) are subject to restriction and/	or election requirement.					
Application Papers						
9) The specification is objected to by the Examir	ner.					
10)☐ The drawing(s) filed on is/are: a)☐ ac	ccepted or b) Objected to	by the Examiner.				
Applicant may not request that any objection to the	e drawing(s) be held in abeya	ance. See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the corre	· ·	• • •	* *			
11) The oath or declaration is objected to by the E	Examiner. Note the attache	ed Office Action or form PTO-	152.			
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of:		§ 119(a)-(d) or (f).				
1. Certified copies of the priority documer		A (1 (2 N)				
2. Certified copies of the priority documer			~~			
 Copies of the certified copies of the pri application from the International Bure 	•	n received in this National Sta	ge			
* See the attached detailed Office action for a lis	, , , , , , , , , , , , , , , , , , , ,	at received				
Gee the attached detailed Office action for a lic	st of the certified copies no	rreceived.				
Attachment(s)	A) 1 1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	Cumman (DTO 442)				
1) Motice of References Cited (PTO-892) 2) Motice of Draftsperson's Patent Drawing Review (PTO-948)		Summary (PTO-413) o(s)/Mail Date				
3) X Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0	8) 5) Notice of	Informal Patent Application (PTO-15	2)			
Paper No(s)/Mail Date	6)	·				

DETAILED ACTION

Claim Objections

1. Claim 21 is objected to because of the following informalities: The preamble discloses "A method for disposing of a consumable part". However the body of the claim does not set forth any "disposing" steps. Appropriate correction is required.

Claim 33 is objected to because the word "exposure" is misspelled.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-4, 7-14, and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Plettner et al in view of Freed et al.

With regard to claims 1 and 9-12, Plettner et al teaches an electronic monitoring device for monitoring chemical exposures of a product comprising: a non-volatile memory unit dedicated to the consumable part and configured to store a history of chemical exposures (col. 2, lines 1-5), a processor connected to the memory and configured to communicate with the memory to store the history, and a power supply circuit connected to the memory and processor and configured to transfer power to the memory and processor (see figure and summary). Plettner et al teaches the device being used for a variety of products (col. 5, lines 7+) but does not specify the device

being used to monitor a consumable part of a semiconductor-processing tool. Freed et al teaches a monitoring device in which a sensor is located inside a wafer processing tool to record data relating to processing, downloading data from a controller, and storing the data in memory (abstract & fig. 2). Since it has been held that a recitation with respect to the manner in which a claimed apparatus is intended to be employed does not differentiate the claimed apparatus from a prior art apparatus satisfying the claimed structural limitations (Ex Parte Masham, 2 USPQ F.2d 1647 (1987)), it would have been obvious to one of ordinary skill in the art, at the time of the invention, to modify Plettner et al, so that the device is used in semiconductor processing equipment, as taught by Freed et al, in order to derive the benefit of a versatile device that can be implemented in a variety of systems.

With regard to claims 2 and 20, Plettner et al teaches a sensor being used to sense a gaseous environment (col. 2, lines 1-5).

With regard to claims 3 and 4, Plettner et al teaches a chip package attached or embedded in the consumable part (col. 2, lines 24-48).

With regard to claim 7, Plettner et al teaches an identification being associated with the consumable part (col. 3, lines 33-35).

With regard to claim 8, Plettner et al does not specify data being sent wirelessly. Freed et al teaches data being sent to and from the memory unit wirelessly (col. 3, lines 30-35). It would have been obvious to one of ordinary skill in the art, at the time of the invention, to modify Plettner et al, so that data is being sent wirelessly, as taught by Freed et al, in order to be able to communicate information from an enclosed area.

With regard to claims 13 and 14, Plettner et al teaches a battery configured to supply power to the circuitry (col. 2, lines 39-43).

4. Claims 5 and 6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Plettner and Freed et al in view of Kishkovich et al.

Plettner et al teaches the device being attached to the consumable part but does not specify the device being used outside the part. Kishkovich et al teaches a sensing device that monitors the performance of a consumable part by sensing the environment away from the part (abstract). It would have been obvious to one of ordinary skill in the art, at the time of the invention, to modify Plettner et al, so that the device is used outside of the consumable part, as taught by Kishkovich et al, so as to derive the benefit of increased flexibility by being able to record exposures at different locations for better recording performance.

5. Claims 15-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Plettner et al and Freed et al in view of Usui et al.

With regard to claims 15 and 16, Plettner et al does not specify the device receiving power from an RF field within a plasma-processing tool. Usui et al teaches a semiconductor-processing device configured to receive radiofrequency power in a plasma tool (¶ 36). It would have been obvious to one of ordinary skill in the art, at the time of the invention, to modify Plettner et al, so that the source receives power from radiofrequency power, as taught by Usui et al, so as to derive the benefit of receiving a convenient source of power.

With regard to claims 17-19, Plettner et al does not specify ports being used to provide communication. Usui et al teaches the device using ports to communicate information (fig. 1, part 126). It would have been obvious to one of ordinary skill in the art, at the time of the invention, to modify Plettner et al, so that ports are used, as taught by Usui et al, so as to be able to communicate information with external devices.

6. Claims 21-34 are rejected under 35 U.S.C. 103(a) as being unpatentable over Plettner et al in view of Freed et al.

With regard to claims 21, 24, 29, 30, and 34, Plettner et al teaches a method of monitoring comprising: acquiring data associated with chemical exposures of a consumable part (col. 2, lines 1-5), storing in a non-volatile memory the history of chemical exposures, and reading the history of the exposures to identify the history of exposure that the part was exposed to (see figure, summary, and col. 4, lines 32-43), and disposing of the consumable part based on the exposures identified from history (col. 4, lines 8 & 9). Plettner et al, however, does not specify the device being used to monitor a consumable part of a semiconductor-processing tool. Freed et al teaches a monitoring device in which a sensor is located inside a wafer processing tool to record data relating to processing, downloading data from a controller, and storing the data in memory (abstract & fig. 2). Since it has been held that a recitation with respect to the manner in which a claimed apparatus is intended to be employed does not differentiate the claimed apparatus from a prior art apparatus satisfying the claimed structural limitations (Ex Parte Masham, 2 USPQ F.2d 1647 (1987)), it would have been obvious to one of ordinary skill in the art, at the time of the invention, to modify Plettner et al, so

Art Unit: 2857

that the device is used in semiconductor processing equipment, as taught by Freed et al, in order to derive the benefit of a versatile device that can be implemented in a variety of systems.

With regard to claims 22 and 23, Plettner et al teaches a sensor being used to sense a gaseous environment of the consumable part (col. 2, lines 1-5).

With regard to claim 25, Plettner et al teaches transferring data from the part to the memory unit (col. 2, lines 23-25).

With regard to claims 26 and 31, Plettner et al does not specify data being sent wirelessly. Freed et al teaches data being sent to and from the memory unit wirelessly (col. 3, lines 30-35). It would have been obvious to one of ordinary skill in the art, at the time of the invention, to modify Plettner et al, so that data is being sent wirelessly, as taught by Freed et al, in order to be able to communicate information from a totally enclosed area.

With regard to claims 27 and 32, Plettner et al teaches data being transmitted to the memory by wire (col. 4, lines 24-30).

With regard to claim 33, Plettner et al teaches toxic exposure levels being identified (col. 2, lines 1-5).

Allowable Subject Matter

7. Claim 28 objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Application/Control Number: 10/767,346

Art Unit: 2857

Conclusion

Page 7

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Both Kerr et al and Suermondt et al teach a method of recording environmental history of a part or device.

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Paul Kim whose telephone number is 571-272-2217. The examiner can normally be reached on Monday-Thursday 10:00-6:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Marc Hoff can be reached on 571-272-2216. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9306 for regular communications and for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

PK

June 9, 2005

MARC S. HOFF SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2800